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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 23 2011

Farmington Field Office

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No

Contract 464

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr, Other _____

2 Name of Operator
Black Hills Exploration & Production

3. Address
3200 N. 1st Street Bloomfield, NM 87413

3a Phone No (include area code)
(505)634-1111

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 1498' FNL & 909' FEL SE/NE Sec. 30 T30N R3W

At top prod. interval reported below

At total depth 1544' FNL & 823' FEL SE/NE Sec. 29 T30N R3W

14 Date Spudded
3/8/11

15. Date T D. Reached
5/19/11

16 Date Completed
☐ D&A ☒ Ready to Prod **8/10/11**

18 Total Depth MD **13066'**
TVD **7615'**

19. Plug Back T D MD **13019'**
TVD **7619'**

20 Depth Bridge Plug Set. MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
Comp. Neutron, Litho Density, Caliper, Array Induction, Sonic, Temp, CBL, PNL, Seg CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST Run? ☒ No ☐ Yes (Submit Report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
		SEE	ATTACHED		SEE	ATTACHED		SEE	ATTACHED

24. Tubing Record

Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)
N/A								

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A						
B	SEE ATTACHED		SEE ATTACHED			
C						
D						

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
SEE ATTACHED	SEE ATTACHED

28 Production - Interval A

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
8/10/11	8/11/11	12	→	0	123	522	N/A	0.59	Flowing up 4 1/2" casing
Choke Size	Tbg. Press Flwg. SI	Csg Press	24 HR Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
11/64	SI	1710	→	0	246	1044		Flowing	

28a. Production - Interval B

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press Flwg. SI	Csg Press	24 HR Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

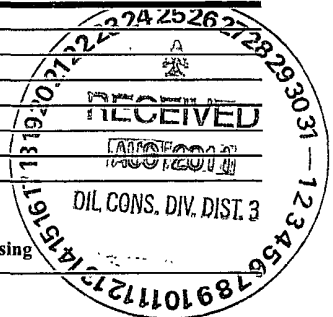
*(See instructions and spaces for additional data on page 2)

NMOCD

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FARMINGTON FIELD OFFICE
BY SCU



28a Production - Interval C

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg Press	24 HR Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28a Production - Interval d

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg Press	24 HR Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29 Disposition of Gas (Solid, used for fuel, vented, etc.)

sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof Cored intervals and all drill-stem tests including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
Mancos	6662	13066	Gas	San Jose	surface
				Nacimiento	2033'
				Ojo Alamo	3297'
				Fruitland Coal	3685'
				Pictured Cliffs	3812'
				Lewis	4120'
				Chacra	5127'
				Mesa Verde	5781'
				Mancos	6662'

32. Additional remarks (include plugging procedure)

Jicarilla 464-30 #724 Mancos

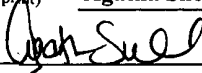
33. Indicate which items have been attached by placing a check in the appropriate boxes.

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)

Name (please print) Agatha SnellTitle Operations Technician

Signature



Date

08/23/11

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

23. Casing and Liner Record

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No Skis & Type Cmt	Slurry Vol (bbl)	Cement Top	Amount Pulled
22"	13 3/8", J-55	54.5	0	405'		330 sx 50/50 Poz, 515 sx G	190	0 - surface	0 15665
12 1/4"	9 5/8", J-55	40	0	4237'	3340'	1st stage- 230 ⁴¹⁰ sx HLP, 180 sx G. 2nd stage- 1480 ¹⁵¹⁵ sx HLP, 60 sx G	618	660' - CBL	0
8 3/4"	7", N-80	23	4047'	7966'		575 sx Halchem, 475 sx 50/50 Poz sqz liner top	133	7966-4920', 4340-4047' - CBL	0
6 1/8"	4 1/2", P-110	11.6	0	13062'		540 sx V, 360 sx Poz 50/50	206	2480' - CBL	0

25. Producing Intervals

Formation	Top	Bottom	26. Perforation Record		Size	No. Holes	Perf Status
Basin Mancos	6662	13066	8050	8340	.42"	60	open
			8428	8620	.42"	60	open
			8735	8895	.42"	60	open
			8995	9243	.42"	60	open
			9345	9502	.42"	60	open
			9649	9842	.42"	60	open
			10060	10258	.42"	60	open
			10430	10610	.42"	60	open
			10755	10942	.42"	60	open
			11060	11255	.42"	60	open
			11390	11542	.42"	60	open
			11615	11815	.42"	60	open
			11937	12091	.42"	60	open
			12213	12481	.42"	60	open
			12666	12831	.42"	60	open

27. Acid, Fracture, Treatment, Cement Squeeze etc.

Depth Interval		Amount and Type of Material
4047' liner top		75 sx, 400 sx 50/50 Poz, 0.3% Halad344, 0.1% CFR3, 0.3% D-Air 3000, 0.2% Versa-set, 1% CaCl2
8050	8340	48 bbls 15% HCL; 6980# 100 mesh white sand; 266,280# 30/70 Brown sand; 8880 bbls slickwater
8428	8620	24 bbls 15% HCL; 6050# 100 mesh white sand; 266,470# 30/70 Brown sand; 8800 bbls slickwater
8735	8895	24 bbls 15% HCL; 6300# 100 mesh white sand; 267,180# 30/70 Brown sand; 9250 bbls slickwater
8995	9243	24 bbls 15% HCL; 6400# 100 mesh white sand; 266,800# 30/70 Brown sand; 9838 bbls slickwater
9345	9502	24 bbls 15% HCL; 7160# 100 mesh white sand; 266,390# 30/70 Brown sand; 8965 bbls slickwater
9649	9842	24 bbls 15% HCL; 6300# 100 mesh white sand; 266,630# 30/70 Brown sand; 8960 bbls slickwater
10060	10258	24 bbls 15% HCL; 6280# 100 mesh white sand; 266,450# 30/70 Brown sand; 8855 bbls slickwater
10430	10610	24 bbls 15% HCL; 6250# 100 mesh white sand; 267,090# 30/70 Brown sand; 8980 bbls slickwater
10755	10942	24 bbls 15% HCL; 6200# 100 mesh white sand; 267,970# 30/70 Brown sand; 8900 bbls slickwater
11060	11255	24 bbls 15% HCL; 5700# 100 mesh white sand; 267,440# 30/70 Brown sand; 8990 bbls slickwater
11390	11542	24 bbls 15% HCL; 6250# 100 mesh white sand; 266,490# 30/70 Brown sand; 9270 bbls slickwater
11615	11815	24 bbls 15% HCL; 6800# 100 mesh white sand; 267,490# 30/70 Brown sand; 8900 bbls slickwater
11937	12091	24 bbls 15% HCL; 6900# 100 mesh white sand; 266,230# 30/70 Brown sand; 9000 bbls slickwater
12213	12481	24 bbls 15% HCL; 5000# 100 mesh white sand; 268,150# 30/70 Brown sand; 9250 bbls slickwater
12666	12831	48 bbls 15% HCL; 6150# 100 mesh white sand; 268,340# 30/70 Brown sand; 9550 bbls slickwater